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TI Preparation of N-methylpyrrolidone

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SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 8 pp.

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AB The process comprises dehydrogenation of gaseous 1,4-butanediol in the presence of catalyst at 175-230.degree. and 0.1-1.0 MPa, removing unreacted gas by condensation, and amination of .gamma.-butyrolactone with methylamine and water at 200-300.degree. and 5-10 MPa for 0.5-5 h. The mole ratio of .gamma.-butyrolactone-methylamine-water is 1:1-4:2-9, preferably 1:1-3:3-6. The catalyst is Cu<sub>a</sub>Zn<sub>b</sub>CrbZrcO<sub>x</sub> (a = 0.1-10; b, and/or c = 0.1-5; x = no. of O to satisfy the valency), and reducing with H<sub>2</sub> at 150- 300.degree. and 0.1-10 MPa for 5-40 h before use. The dilg. gas is selected from H<sub>2</sub>, N<sub>2</sub>, CH<sub>4</sub>, and CO<sub>2</sub>, the mole ratio of dilg. gas to 1,4-butanediol is 1-50:1.

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DT Patent

LA Chinese